KHRUNOVA, A.P., aspirant.

Testing new antibiotics, syntomycin and albomycin in experimental syphilis. Vest.ven.i derm. no.5:53-54 S-O '53. (MLRA 6:12)

1. Iz mikologicheskogo otdela TsKVI.
(Antibiotics) (Syphilis)

KHRUNOVA, A. P.

"Novocillin in the treatment of syphilis patients." Naval Medical Academy. Moscow, 1956. (Dissertations for the Degree of Candidate in Medical Science)

So: Knizhaya letopis', No. 16, 1956

KHRUNOVA, A. P.

COUNTRY : USSR V
CATEGORY : Pharmacology and Toxicology. Ganglionic Blocking Agents
ABS. JOUR. : RZhBiol., No. 5 1959, No. 23097

AUTHOR : Smelov, N. S.; Malykin, R. Ya.; Laptev, V. A.;*
INST. : -
TITLE : On the Therapeutic Effectiveness of a New Domestic Ganglionic Blocking Preparation, Nanofin, in the Treatment of Patients with Eczema and**
ORIG. PUB. : Sov. meditsina, 1957, No 7, 22-27

ABSTRACT : The authors carried out the treatment of 62 patients affected with eczema and neurodermatitis with nanofin (hydrochloride of 2,6-dimethylpiperidine). As a result of the treatment, clinical improvement occurred in a majority of patients. Disappearance of hyperesthesia of the

*Khrunova, A. P.
**Neurodermatitis

Card: 1/2

Dept of Dermatology + Dept. Pathophysiology Cent. Sci Res. Skin Venereological Inst.

SMELOV, N.S., prof., MALYKIN, R.Ya., prof., KHRUNOVA, A.P., kand.med.nauk, ZHERTSALOVA, G.N.

Electronarcosis in treatment of eczema and neurodermatitis.
Sov.med. 22 no.9:92-98 S'58 (MIRA 11:11)

1. Iz TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (dir. -kand.med.nauk N.M. Turanov) Ministerstov zdravookhraneniya RSFSR.

(ELECTRONARCOSIS,
ther. of eczema & neurodermatitis (Rus))
(ECZEMA, ther.
electronarcosis (Rus))
(NEURODERMATITIS, ther.
same (Rus))

MALYKIN, R.Ya., prof. [deceased]; KHRUNOVA, A.P., kand.med.nauk; IYEVLEVA, Ye.A., mladshiy nauchnyy sotrudnik

Some physiological mechanisms of the activity of ganglion-blocking preparations and of electronarcosis on the functional state of the skin; experimental investigations. Vest.derm.i ven. 33 no.5:18-24 S-O '59. (MIRA 13:2)

1. Iz otdela patofiziologii (zaveduyushchiy - prof. R.Ya. Malykin) TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (direktor - kand.med.nauk N.M. Turanov) Ministerstva zdravookhraneniya RSFSR.

(SKIN physiol.)
(AUTONOMIC DRUGS pharmacol.)
(ELECTRONARCOSIS eff.)

KHRUNOVA, A.P.

Functional disorders of the nervous system in patients with lupus erythematosus. Vest.derm.i ven. 35 no.3:8-11 Mr '61.
(MIRA 14:4)

1. Iz otdela patofiziologii (zav. - prof. R.Ya. Malykin [deceased], konsul'tant - doktor med.nauk Ye.Kh. Ganyushina) i otdela dermatologii (zav. - prof. N.S. Smelov) TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (dir. - dotsent N.M. Turanov) Ministerstva zdravookhraneniya RSFSR.
(CEREBRAL CORTEX) (LUPUS)

ROZENTUL', M.A., prof.; STUDNITSIN, A.A., prof.; MASLOV, P.Ye., starshiy nauchnyy sotrudnik; RAKHMALEVICH, Ye.M., starshiy nauchnyy sotrudnik; KHAMAGANOVA, A.V., mladshiy nauchnyy sotrudnik; IVANOVA, N.K., mladshiy nauchnyy sotrudnik; KHRUNOVA, A.P., mladshiy nauchnyy sotrudnik; BEL'YAKOVA, A.G., vrach; ZATURENSKAYA, P.I., vrach

Pathogenesis and treatment of eczema and neurodermatitis in children. Vest.derm.i ven. no.12:3-8 '61. (MIRA 15:1)

1. Iz TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (dir. - kand.med.nauk N.M. Turanov) i iz Bol'nitsy imeni Korolenko (glavnyy vrach A.I. Pustovaya).
2. Bol'nitsa imeni Korolenko (for Bel'yakova i Zaturenskaya).
(ECZEMA) (SKIN--DISEASES)

KHRUNOVA, A.P.; ANGELOVA, V.S.

Functional changes in higher regions of the brain in allergic skin reactions in sensitized animals; based on electroencephalographic data. Vest. derm. i ven. 37 no.5:7-13 My '63.
(MIRA 17:5)

1. Otdel patofiziologii (zav. - prof. P.M. Zalkan) TSentral'nogo kozhno-venerologicheskogo instituta (dir. - dotsent N.M. Turanov) Ministerstva zdravookhraneneya RSFSR i laboratoriya elektrofiziologii (zav. - prof. M.N. Livanov) Instituta vysshey nervnoy deyatel'nosti (dir. - prof. E.A. Asratyan) AN SSSR.

KHRUNOVA, A.P.

Functional disorders of the nervous system in lupus erythematosus and eczema. Sov. med. 28 no.7:73-80 Jl '64.

(MIRA 18:8)

1. Otdel patofiziologii (zav. - doktor med.nauk Ye.Kh.Ganyushina) i otdel dermatologii (zav. - prof. N.S.Smelov) TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (dir. N.M.Turanov) Ministerstva zdravookhraneniya RSFSR, Moskva.

SHUGAL, Ye.G.; RYABOY, O.M.; BOCHAROVA, T.V.; KISLYAK, L.M.; KOBEL'KOVA, A.M.; LYKOV, A.D.; MANYAKHINA, O.V.; SHLENOVA, T.G.; YAGUPOVA, Ye.I.; IVANOV, N.A.; RYBKIN, I.P.; KHOKHLOVA, P.Ye.; KHRUNTYAYEVA, A.S.; PROLOVA, M.I.; RAKOV, F.M., red.; MARCHENKO, V.A., red.; KOLPAKOV, B.T., red.; DEMINA, V.N., red.; MELENT'YEV, A.M., tekhn. red.

[Soviet commerce of the R.S.F.S.R.; a statistical manual] Sovetskaia torgovlia v RSFSR; statisticheskii sbornik. Moskva, Gos. stat. izd-vo, 1956. 342 p. (MIRA 11:10)

1. Russia (1917- R.S.F.S.R.) TSentral'noye statisticheskoye upravleniye.

(Commercial statistics)

KHRUPACHEV, G.I.

Improved operation of the SVP-220-280 feeding unit. Energetik 9 no.2:32-33 F '61. (MIRA 16:7)

(Pumping machinery) (Boilers)

KHRUPINA A. YA.

EXCERPTA MEDICA Sec 6/Vol 13/6 Internal Medicine June 59

3208. CHANGES IN LIVER FUNCTION IN CHRONIC SEPTIC ENDOCARDITIS, RHEUMOCARDITIS AND RHEUMATIC LESIONS OF THE HEART (Russian text) - Khrupina A.Y. - VOPR. REVMATIZMA (Novosibirsk) 1957 (236-251)

The functional state of the liver was studied in 16 patients with protracted septic endocarditis, 25 with rheumatic carditis and 34 with valvular heart lesions without active rheumatism or septic processes, using tests to demonstrate the detoxicating, protein, pigment, carbohydrate and prothrombin-forming functions of the liver. A study of the results of various tests of liver function showed that there was a significant disturbance of the multifarious functions of the liver in the conditions mentioned above and also under conditions of circulatory insufficiency with stasis and cirrhotic changes in the liver. The impairment of the protein-forming function of the liver leads to hypoproteinaemia. The sublimate test was positive in 85% of cases of severe septic endocarditis and in 50-70% of cases of rheumatic carditis and rheumatic heart lesions with cardiac insufficiency. The formalin test was positive in the majority of cases of chronic septic endocarditis and occasionally in rheumatic carditis and in heart lesions with cardiac decompensation and in the presence of stasis and cirrhotic changes of the liver. Disturbances of the detoxicating function of the liver were well marked in septic endocarditis and to a lesser degree in rheumatic carditis with signs of stasis in the liver. Hypoglycaemia (indicating impairment of carbohydrate metabolism) occurred in all cases, especially in septic endocarditis. The use of tests of liver function is of importance both for the diagnosis of the basic pathological process and for the early recognition and treatment of concomitant liver damage. (S)

Chair of Hospital Surgery
Novosibirsk Med. Inst.

CHERNE, Khaim Isaakovich; KHRUPOV, P.G., otv. red.; VIZIROVA, V.V., red.; MARKOCH, K.G., tekhn. red.

[Inductive couplings and transformations in electric filters; principal theoretical problems] Induktivnye sviazi i transformatsii v elektricheskikh fil'trakh; osnovnye voprosy teorii. Moskva, Sviaz'izdat, 1962. 315 p. (MIRA 15:8)
(Electric filters) (Electric networks)

KHRUPPA, I. F.

KHRUPPA, I. F. -- "Experience in Irrigating Alfalfa in the Omsk Region (Based on Material from the Author's Field Experiments)." Author's abstract of a dissertation submitted at the Omsk Agricultural Inst imeni S. M. Kirov. Omsk, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No 1, 1956

KHAVKIN, L. F.

AFANAS'YEVA, A.L., kand.biol.nauk; BAYMURTUYEV, A.A., kand.sel'skokhozyaystvennykh nauk; BAL'CHUGOV, A.V., kand.sel'skokhozyaystvennykh nauk; BELOZEROVA, M.A., agronom; BELOZOROV, A.T., kand.sel'skokhozyaystvennykh nauk; MAKSIMENKO, V.P., agronom; BERNIKOV, V.V., doktor sel'skokhozyaystvennykh nauk; BOGOMYAGKOV, S.T., kand.sel'skokhozyaystvennykh nauk; VOLYNETS, O.S., agronom; BODROV, M.S., kand.sel'skokhozyaystvennykh nauk; BOGOSLAVSKIY, V.P., kand.tekhn.nauk; KHRUPPA, I.F., kand.tekhn.nauk; VARNAR, A.R., doktor biol.nauk; VOZBUTSKAYA, A.Ye., kand.sel'skokhozyaystvennykh nauk; VOINOV, P.A., kand.sel'skokhozyaystvennykh nauk; VYSOKOS, G.P., kand.biol.nauk; GALDIN, M.V., inzhener-mekhanik; GERASIMOV, S.A., kand.tekhn.nauk; GORSHENIN, K.P., doktor sel'skokhozyaystvennykh nauk; YELENEV, A.V., inzhener-mekhanik; GRASKEVICH, S.V., mekhanik [deceased]; ZHARIKOVA, L.D., kand.sel'skokhozyaystvennykh nauk; ZHEGALOV, I.S., kand.tekhn.nauk; ZIMINA, Ye.A., agronom; BARANOV, V.V., kand.tekhn.nauk; PAVLOV, V.D.; IVANOV, V.K., kand.sel'skokhozyaystvennykh nauk; KAPLAN. S.M., kand.sel'skokhozyaystvennykh nauk; KATIN-YARTSEV, L.V., kand.sel'skokhozyaystvennykh nauk; KOPYRIN, V.I., doktor sel'skokhozyaystvennykh nauk; KOCHERGIN, A.Ye., kand.sel'skokhozyaystvennykh nauk; KOZHEVNIKOV, A.R., kand. sel'skokhozyaystvennykh nauk; KUZNETSOV, I.N., kand.sel'skokhozyaystvennykh nauk; LAMBIN, A.Z., doktor biol.nauk; LEONT'YEV, S.I., kand.sel'skokhozyaystvennykh nauk; MAYBORODA, N.M., kand.sel'skokhozyaystvennykh nauk; MAKAROVA, G.I., kand.sel'skokhozyaystvennykh nauk; MEL'NIKOV, G.A., inzhener; ZHDANOV, B.A., kand.sel'skokhozyaystvennykh nauk; MIKHAYLENKO, M.A., kand.sel'skokhozyaystvennykh nauk; MAGILEVTSEVA, N.A., kand.sel'skokhozyaystvennykh nauk;

(Continued on next card)

AFANAS'YEVA, A.L.... (continued) Card 2.

NIKIFOROV, P.Ye., kand.sel'skokhozyaystvennykh nauk; NENASHEV, M.I., lesovod; PERVUSHINA, A.N., agronom; PLOTNIKOV, N.A., kand.biol.nauk; L.G.; kand.sel'skokhozyaystvennykh nauk; PAVLOV, V.D., kand.tekhn. nauk; PRUTSKOVA, M.G., kand.sel'skokhozyaystvennykh nauk; GURCHENKO, V.S., agronom; POPOVA, G.I., kand. sel'skokhozyaystvennykh nauk; PORTYANKO, A.F., agronom; RUCHKIN, V.N., prof.; RUSHKOVSKIY, T.V., agronom; SAVITSKIY, N.S., kand.sel'skokhozyaystvennykh nauk; BOLDIN, D.T., agronom; NESTEROVA, A.V., agronom; SERAFIMOVICH, L.B., kand. tekhn.nauk; SMIRNOV, I.N., kand.sel'skokhozyaystvennykh nauk; SEREBRYANSKAYA, P.I., kand.tekhn.nauk; TOKHTUYEV, A.V., kand. sel'skokhozyaystvennykh nauk; FAL'KO, O.S., izuh.; FEDYUSHIN, A.V., doktor biol.nauk; SHEVLYAGIN, A.I., kand.sel'skokhozyaystvennykh nauk; YUFEROV, V.A., kand.sel'skokhozyaystvennykh nauk; YAKHTENFEL'D, P.A., kand.sel'skokhozyaystvennykh nauk; SEMENOVSKIY, A.A., red.; GOR'KOVA, Z.D., tekhn.red.

[Handbook for Siberian agriculturists] Spravochnaia kniga agronoma Sibiri. Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol.1. 1957. 964 p.
(Siberia--Agriculture) (MIRA 11:2)

BOGUSLAVSKIY, Viktor Petrovich, kand. tekhn. nauk; DAVYDOV, Andrey Dmitriyevich; KHRUPPA, Ivan Fedorovich; PETROV, I.F., red.; MEL'NIKOV, V.I., tekhn. red.

[Irrigation of vegetable crops in suburban zones] Oroshenie ovoshchnykh kul'tur vprigorodnoi zone. Omsk, Omskoe knizhnoe izd-vo, 1960. 67 p. (MIRA 14:12)

(Vegetables—Irrigation)

KHRUSANOV, G.

"At the Agricultural Exhibition in Lublin." p. 36,
(KOOPERATIVNO ZEMEDELIE, Vol. 9, No. 9, 1954, Sofiya, Bulgaria)

SO: Monthly List of European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

KHIDEKEL', M.L.; RAZUVAYEV, G.A.; NOVIKOVA, Ye.I.; SMIRNOVA, L.A.; KHRUSHCH, A.P.

Interaction of 2,4,6-triphenyl-1-phenoxyl with solvents. Izv. AN SSSR. Ser. khim. no.8:1530-1532 Ag '64. (MIRA 17:9)

1. Institut khimicheskoy fiziki AN SSSR i Gor'kovskiy gosudarstvennyy universitet im. N.I. Lobachevskogo.

L 45934-66 EWT(m)/EWP(j) RM

ACC NR: AR6023270 SOURCE CODE: UR/0058/66/000/003/D058/D058

65
B

AUTHOR: Fugol', I. Ya.; Khrushch, B. I.; Zaytsev, V. S.

TITLE: Procedure for spectral investigations of condensed gases in the region of the vacuum ultraviolet at low temperatures (77K)

SOURCE: Ref zh. Fizika, Abs. 3D489

REF. SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 384-392

TOPIC TAGS: uv spectrum, absorption spectrum, gas discharge spectroscopy, low temperature research, methane, xenon

ABSTRACT: A high resolution procedure is developed for the investigation of the spectra of frozen gases. Powerful pulsed sources of the continuous spectrum have been developed, of the Lyman discharge type, and also sources of intense line spectra, namely a condensed spark discharge or a gliding spark. A special cryostat was constructed for low-temperature measurement in a vacuum spectrograph. In the 2,000 -- 1200 Å region at 77 K, the spectra of thin films of methane and xenon, deposited on a

15

Card 1/2

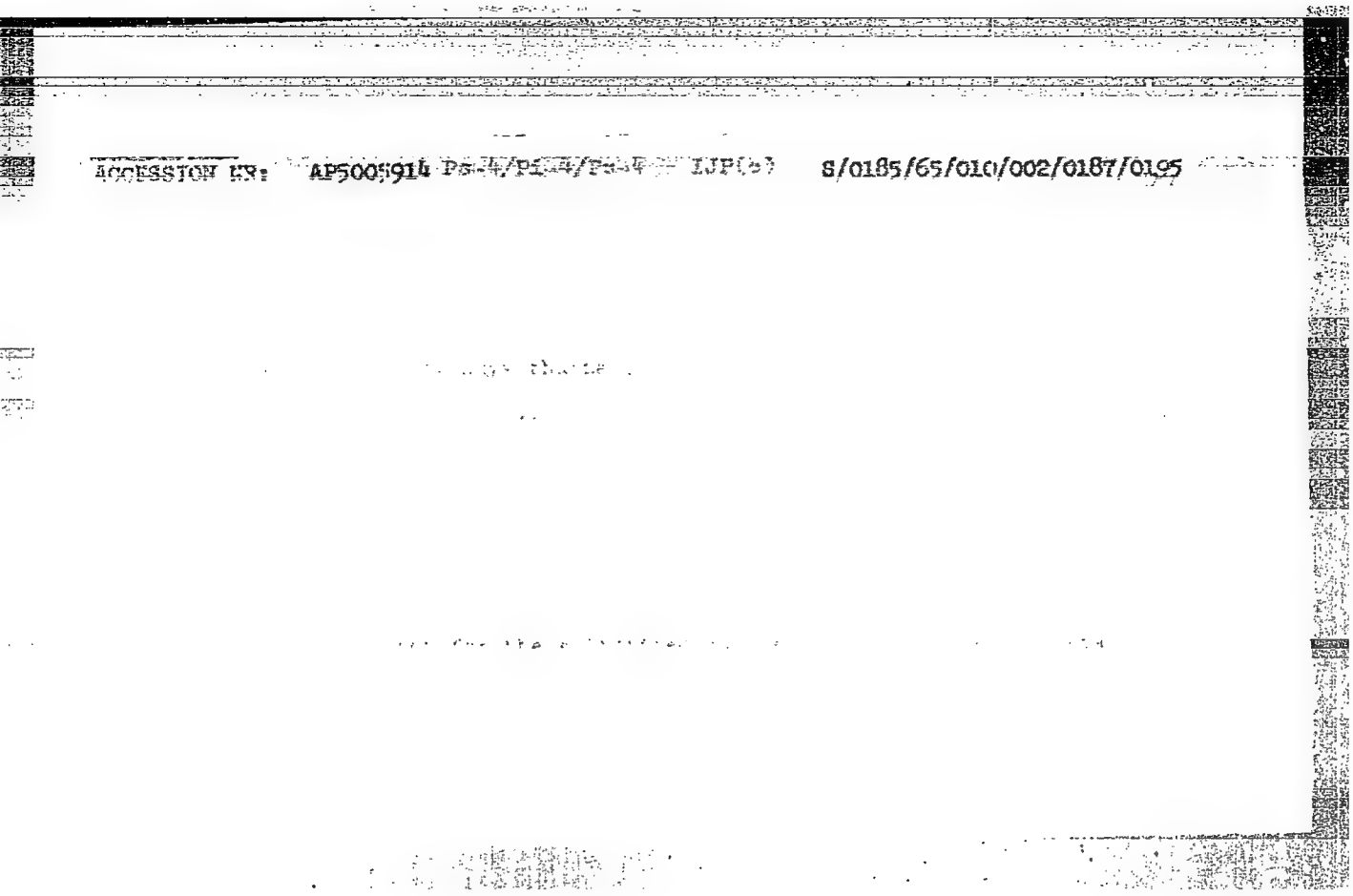
L 45934-66

ACC NR: AR6023270 O

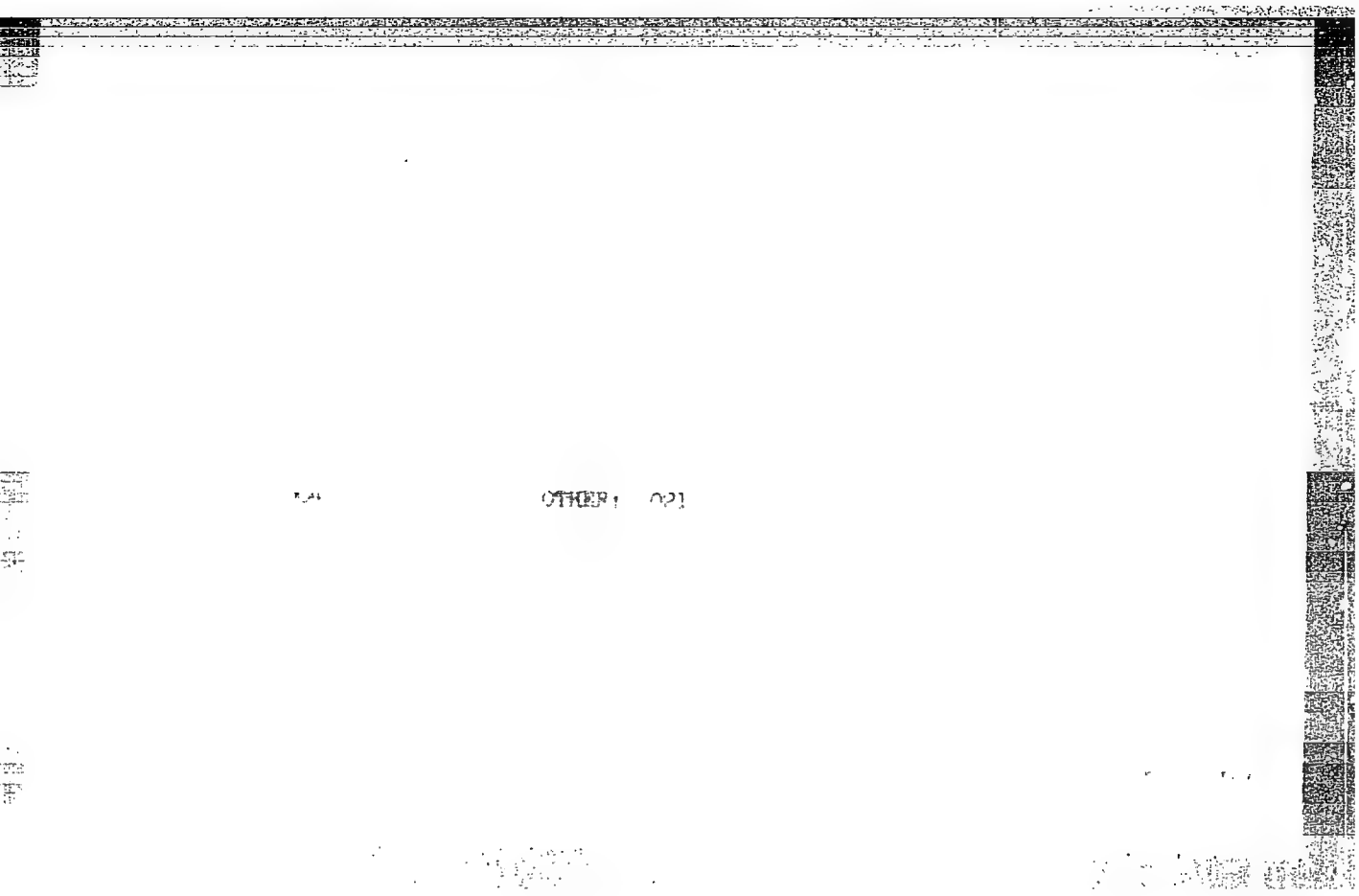
substrate, were investigated. The results are compared with the absorption of the gases in the region of the vacuum ultraviolet. [Translation of abstract]

SUB CODE: 20

Card 2/2 blg



ACCESSION NR: AP5005914 S/0185/65/010/002/0187/0195



DUEL', M.A., kand.tekhn.nauk; MAR'YENKO, A.F., inzh.; KHRUSHCH, L.M., inzh.

Determination of dynamic characteristics of single-phase heating sections of a boiler unit in a nonsteady mode of operation. Teploenergetika 12 no.1:87-89 Ja '65. (MIRA 18 4)

1. TSentral'nyy nauchno-issledovatel'skiy institut kompleksnoy avtomatizatsii.

KHRUSHCH, M.G. [Khrushch, M.H.]

Silk coverings for filter elements of diesel engines. Mekh. sil'. hosp. 11 no.8:17 Ag '60. (MIRA 13:9)

1. Starshiy inzhener Nikolayevskogo oblupravleniya sel'skogo khozyaystva.
(Diesel engines) (Filters and filtration)

KHRUSHCH, M.G. [Khrushch, M.H.], inzh.

Self-sharpening working parts for tillage implements. Mekh. sil'. hosp. 11 no.12:27 D '60. (MIRA 13:12)

1. Nikolayevskoye oblupravleniya sel'skogo khozyaystva.
(Cultivators)

KHRUSHCH, M.G. [Khrushch, M.H.], starshiy inzh.

Golden hands of Bohdan Kalynych. Mekh. sil'. hosp. 12 no. 1:6-8 Ja '61. (MIRA 14:1)

1. Otdel mekhanizatsii Nikolayevskogo oblsel'khozupravleniya.
(Electricity in agriculture)

KHRUSHCHEV

see also KHRUSHCHOV

KHRUSHCHEV, A.

Fulfilling the mandate. Sov.shakht. 11 no.2:13 F '62.
(MIRA 15:1)

1. Predsedatel' uchastkovogo komiteta profsoyuza, shakhta No.22 tresta Shchekinugol', Tul'skoy oblasti.
(Trade unions) (Coal miners)

VEKLENKO, A.F.; SPASSKIY, K.S.; KHRUSHCHEV, A.A.

New stationary motion-picture projector for the showing of narrow-width films. Trudy NIKFI no.7:199-207 '47. (MIRA 11:6)

1. Laboratoriya zvukovosproizvedeniya Nauchno-issledovatel'skogo kino-foto-instituta, Moskva.
(Motion-picture projection--Equipment and supplies)

KHRUSHCHEV, A. PA 26/49T100

USSR/Radio - Relay Stations Jan 49
Projectors, Motion Picture

"Cino-Radio Unit," A. Khrushchev, 1 p

"Radio" No 1

Photograph, diagram and explanation of a movie-projection unit and small relaying station combined in one housing. Main advantage of the combination is that one amplifying system can be used for both units.

[redacted] 26/49T100

KHRUSHCHEV, A.A.

38077. KHRUSHCHEV, A. A. and MATVEYENKO, A. S.

Massovyy tip usilitel'nogo ustroystva dlya zvukovogo kino (USU-45). Trudy nikfi (nauch.-issled. kinofoto in-t), vyp. 10, 1949, s. 138-60.

KHRYSHCHEV, A. A.

Physics

"A new two-channel system for high-quality sound reproduction," Iz. Ak. Nauk SSSR, Ser. Fiz., 13, No. 6, 1949.

KHRUSHCHEV, A. A.

"New System for Reproduction of Sound," (Novaya Sistema Vosproizvedeniya Zvuka), 148 pp, Moscow, 1950

KHRUSHCHEV. A.

Radio

Combination moving picture and radio installation. Kinomekhanik, no.8, 1952

Monthly List of Russian Accessions, Library of Congress, November 1952, UNCLASSIFIED

KHRUSHCHEV, A. A

Jul 53

USSR/Electronics - Wired-Radio Stations
Motion-Picture Projectors

"The Combined Motion Picture-Radio Installation SKRU-100," A. Khrushchev, Stalin Prize Winner

Radio, No 7, pp 16-22

The SKRU-100 combined motion-picture projector and wired-radio center was developed in the All-Union Sci-Res Cinematograph Inst. The Samarkand Motion-Picture Equipment Plant is now developing a commercial model with total amplifier power of 100 w. Installation is designed to furnish motion pictures for 200-250 persons and wired-radio service for 400-500 points.

263T71

KHRUSHCHEV, A. A.

"Complex System of Sound and Cine Technical Equipment for the Kremlin Congress Palace."

report presented at the 5th Congress, Intl. Union of Cinematography Techniques (UNIATEC) Moscow, 1-4 Oct 62

KHIDEKEL', M.L.; KHRUSHCH, A.P.; BALANDIN, A.A., akademik

Correlation equations for some catalytic reactions. Dokl. AN SSSR 159 no.6:1389-1390 D '64 (MIRA 18:1)

1. Filial Instituta khimicheskoy fiziki AN SSSR i Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

ALISOV,B.P.; BARANSKIY,N.N.; BELOUSOV,I.I.; BLIZNYAK,Ye.V.; BURENSTAM,A.G.; VITVER,I.A.; VOSKRESENSKIY,S.S.; GVOZDETSKIY,N.A.; IVANOV,K.I.; MEYERGOYZ,I.M.; MARKOV,K.K.; NIKOL'SKIY,I.V.; SAUSHKIN,Yu.G.; SOLOV'YEV, A.I.; STEPANOV,P.N.; KHRUSHCHEV,A.T.

Nikolai Nikolaevich Kolosovskii, 1891-1954. Vop.geog. no.37:210-211 '55. (Geography--Study and teaching) (Kolosovskii, Nikolai Nikolaevich, 1891-1954)

BURENSTAM, A.G.; NIKOL'SKIY, I.V.; KOROVITSYN, V.P.; KHRUSHCHEV, A.T.; SHAPOSHNIKOV, A.S.

Geographical study of the construction industry of the U.S.S.R. Geog. i khoz. no.1:7-11 '58. (MIRA 12:1)
(Construction industry)

KHRUSHCHEV, A.T.; NIKOL'SKIY, I.V.; LAVRISHCHEV, A.N., nauchnyy red.; VORONINA, N.V., red.

[Development and distribution of industry and transportation in the U.S.S.R. in the seven-year plan] Razvitie i razmeshchenie promyshlennosti i transporta SSSR v semiletke. Moskva, Izd-vo VPSh i AON pri TsK KPSS, 1960. 149 p. (MIRA 13:12)
(Russia--Industries) (Transportation)

KHRUSHCHEV, A.T.; NIKOL'SKIY, I.V.; LAVRISHCHEV, A.N., nauchnyy red.; VORONINA, N.V., red.

[Development and distribution of U.S.S.R. industry and transportation in the seven-year plan] Razvitie i razmeshchenie promyshlennosti i transporta SSSR v semiletke. Moskva, Izd-vo VPSh i AON pri TsK KPSS, 1960. 151 p. (MIRA 14:2)
(Russia--Industries) (Transportation)
(Russia--Economic policy)

KHRUSHCHEV, Anatoliy Timofeyevich; KHROMOVA, Ye.A., red.; YERMAKOV, M.S., tekhn.red.

[Geography of Soviet industry; textbook for third-year correspondence school students of geographical faculties of state universities] Geografiia promyshlennosti SSSR; uchebnoe posobie dlia studentov-zaochnikov III kursa geograficheskikh fakul'tetov gosudarstvennykh universitetov. Izd.3., perer. i dop. Moskva, Izd-vo Mosk.univ., 1960. 182 p. (MIRA 13:12)
(Industries, Location of)

PLOTKIN, Moisey Ruvimovich; KHRUSHCHEV, A.T., red.; KHAKIMOV, V.Z., red.izd-va; GEORGIYEVA, G.I., tekhn.red.

[Principles of industrial production; lecture course] Osnovy industrial'nogo proizvodstva; kurs lektsii. Moskva, Izd-vo Mosk.univ., 1960. 341 p. (MIRA 13:6)
(Industrial organization)

IVANOV, S.P., KOROVITSYN, V.P., NIKOL'SKIY, I.V., KHRUSHCHEV, A.T.

Comprehensive studies of the economic geography of Eastern Zazakhstan. Vest. Mosk. un. Ser.5: Geog. 15 no.3:42-47 My - Je '60. (MIRA 13:7)

1. Kafedra ekonomicheskoy geografii SSSR Moskovskogo universiteta.
(Kazakhstan--Economic conditions)

IVANOV, S.P.; KOROVITSYN, V.P.; NIKOL'SKIY, I.V.; KHRUSHCHEV, A.T.

Territorial organization of the construction industry based on the study of the Kazakh S.S.R. Geog. i khoz. no.9:34-37 '61. (MIRA 14:11)

(Kazakhstan--Construction industry)
(Kazakhstan--Building materials industry)

NIKOL'SKIY, I.V.; KHRUSHCHEV, A.T.

Several characteristics of the future development of the territorial production complex of Eastern Siberia. Vop. geog. no.57:236-249 '62. (MIRA 15:10)
(Siberia, Eastern—Economic geography)
(Siberia, Eastern—Economic zoning)

IVANOV, S.P.; NIKOL'SKIY, I.V.; KHRUSHCHEV, A.T.

Main problems of the future development of the territorial production complex of eastern Kazakhstan. Vop. geog. no.57: 288-296 '62. (MIRA 15:10)
(Kazakhstan—Industries)
(Kazakhstan—Economic policy)

BYKOV, V.D., red.; ZVONKOVA, T.V., red.; GLADKOV, N.A., red.; KOVALEV, S.A., red.; KOSOV, B.F., red.; MARKOV, K.K., red.; RYABCHIKOV, A.M., red.; SAUSHKIN, Yu.G., red.; SIMONOV, Yu.G., red.; KHRUSHCHEV, A.T., red.; BOKOVETSKIY, O.D., red.; KONOVALYUK, I.K., mladshiy red.; GOLITSYN, A.V., red.kart; KOSHELEVA, S.M., tekhn. red.

[Soviet geography during the period of the building of communism] Sovetskaia geografiia v period stroitel'stva kommunizma. Moskva, Geografgiz, 1963. 486 p. (MIRA 16:10)

(Geography)

BREYTERMAN, Aleksandr Davydovich; ALAMPIYEV, P.M., prof., retsenzent; KHRUSHCHEV, A.T., dots., retsenzent; SEVERTSEV, V.A., red.

[Economic geography of the U.S.S.R.] Ekonomicheskaia geografiia SSSR. Moskva, Vysshaia shkola. Pt.1. 1965. 369 p. (MIRA 18:8)

KHRUSHCHEV, B. I. Cand Phys-Math Sci -- (diss) "Energy dependence of the angular distributions of a B B^{10} (d,p) B^{11} reaction." Tashkent, 1959. 11 pp (Acad Sci UzSSR. Inst of Nuclear Physics), 175 copies. Bibliography: p 11 (14 titles) (KL, 41-59, 103)

~~21(1),21(7)~~ 24.6510 6653

AUTHORS: Starodubtsev,S.V.,and Khrushchev,B.I. SOV/166-59-3-7/11

TITLE: Angular Distributions for Protons of the Reaction $B^{10}(d,p)B^{11}$

PERIODICAL: Izvestiya Akademii nauk Uzbekskoy SSR, Seriya fiziko-matematicheskikh nauk, 1959, Nr 3, pp 47-51 (USSR)

ABSTRACT: The paper contains the results of an experimental investigation of the angular distribution of protons of two groups p_0(Q=9,24 MEV) and p_1(Q=7,1 MEV) for the reaction $B^{10}(d,p)B^{11}$ for four values of the energy of falling deuterons: E_d=5; 5,75; 6,5 and 7,25 MEV. The investigation was carried out in a chamber analogous to that described in [Ref 8]. The recording of the secondary protons was carried aut with the aid of thick-layer photo emulsions. The results are represented in several figures. The authors try to explain the deviations from the theoretical data [Ref 9]. There are 9 figures, and 19 references, 3 of which are Soviet, 1 English, and 15 American.

ASSOCIATION: Institut yadernoy fiziki AN Uz SSR (Institute of Nuclear Physics AS Uz SSR)

SUBMITTED: February 5, 1959

Card 1/1

21(7)

06550

SOV/166-59-4-1/10

AUTHORS: Khrushchev, B.I., and Starodubtsev, S.V., Academician AS UzSSR

TITLE: On the Interaction of Deuterons With the Nuclea B^{10}

PERIODICAL: Izvestiya Akademii nauk Uzbekskoy SSR, Seriya fiziko-matematicheskikh nauk, 1959, Nr 4, pp 3-8 (USSR)

ABSTRACT: The authors investigate the question whether the reaction $B^{10}(d,p)B^{11}$ in essential appears by a formation of a compound nucleus or by a direct nuclear interaction. Therefore with the aid of a multiple-plate camera the cross sections (with an exactness of ± 30%) and the angular distributions were determined. The experiments are described in [Ref 11]. The dependence of the distributions on the energy E_d is not large, in all cases the distributions show a characteristic maximum clearly displaced towards the left hand side ($\sim 20^0$). By the considerations of [Ref 9,10] this assertion allows to conclude that the considered reaction in the case of the transition to the second and third state of excitation in essential appears at the surface of the nucleus by a direct interaction under participation

Card 1/2

33089
S/638/61/001/000/011/056
B102/B138

24.6600

AUTHORS: Starodubtsev, S. V., Khrushchev, B. I.

TITLE: Energy dependence of angular distributions in $B^{10}(d,p)B^{11}$ reactions

SOURCE: Tashkentskaya konferentsiya po mirnomy ispol'zovaniyu atomnoy energii. Tashkent, 1959. Trudy. v. 1. Tashkent, 1961, 89-97

TEXT: In $Li^7(\alpha,\gamma)B^{11}$ reactions, the following was obtained for the first three excited states of the B^{11} nucleus: $j = 1/2^{\pm}$ (E_x = 2.14 Mev); $j = 5/2^+$ (E_x = 4.46 Mev); $j = 1/2^{\pm}$ (E_x = 5.03 Mev). The first level probably has negative parity which is confirmed by results of the $B^{11}(p,p,\gamma)B^{11}$ and $B^{10}(d,p,\gamma)B^{11}$ reactions. The following theoretical values are found for the first four levels of the B^{11} nucleus (l_n = 1, 3, 0, 2): $j = 3/2^-$ (E_x = 0), $j = 1/2^-$, $j = 5/2^+$, and $j = 1/2^+$. In the range of $E_d \approx 0.5$-2 Mev, the reaction $B^{10}(d,p)B^{11}$ shows two broad

Card 1/3

Energy dependence of angular ...

resonances at $E_d \approx 1$ Mev and 1.5 Mev. While different experiments by different authors all give $l_n=1$ for the ground level, results diverge for the 1st and 2nd excited levels. The authors made their own experiments of the $B^{10}(d,p)B^{11}$ reaction at $E_d=6$-7 Mev on the cyclotron of LFTI. The proton angular distribution and the integral cross sections of the four long-range groups ($E_d=5$, 5.75, 6.5, and 7.25) were investigated by photographic plates arranged round the fission chamber every 10^0 between 10 and 170^0. E_d was measured with an accuracy of $\pm 3\%$, the deuteron energy spread did not exceed 1.5%. A comparison of angular distributions with those expected from Butler's theory gives $l_n=1$ for all four proton groups (ground state and first three excited states of the B^{11} nucleus). This results do not agree for the first three excited states either with other experimental results or with the theoretical results of the shell model. For the 1st and 3rd excited states, this value also contradicts the law of conservation of angular momentum. Therefore, the experimental results must not be interpreted by the model of the "normal" stripping reaction mechanism. The question then arises of the mechanism by which this reaction mainly proceeds. Most likely it is a process via compound nucleus

Card 2/3

STARODUBTSEV, S.V.; KHRUSHCHEV, B.I.

Elastic scattering of α-particles on silver and deuterons on gold. Izv. AN Uz. SSR. Ser. fiz.-mat. nauk 6 no.5:85-86 '62. (MIRA 15:11)

1. Institut yadernoy fiziki AN UzSSR.
(Alpha rays—Scattering)
(Deuterons—Scattering)

ACCESSION NR: AP4038422 S/0166/64/000/002/0059/0063

AUTHOR: Khrushchev, B. I.; Trombachev, Yu. T.; Petrunin, V. F.

TITLE: Semiconductor surface barrier counters

SOURCE: AN UzSSR. Izv. Seriya fiziko-matematicheskikh nauk, no. 2, 1964, 59-63

TOPIC TAGS: transistorized counter, surface barrier counter, silicon plate, nickel plating, thermal neutron, magnetic field, gamma radiation background

ABSTRACT: The authors developed a method for production of semiconductor counters. In order to preserve the life span of the minority charge carriers and their mobility, the counters were prepared of n-type silicon with a specific resistance of 300 ohm/cm, 0.4-1 mm thick of a square or rectangular shape and an area from $1mm^2$ to $1\ cm^2$. The completed counters were tested on an α-source with a 5.6 MeV energy of α-particles. The tests were conducted in magnetic fields with magnitudes up to 12,000 erg. The authors concluded that silicon surface-barrier counters containing boron-10 may be used for counting thermal neutrons even in the presence of strong magnetic fields. The counters must, however, be protected against effects of light sources, because of their extreme sensitivity toward a γ-background. Orig. art. has: 5 figures and 1 equation.

Card 1/2

ACCESSION NR: AP4042263 S/0089/64/017/001/0059/0060

AUTHORS: Starodubtsev, S. V.; Khrushchev, B. I.

TITLE: Elastic scattering of alpha particles by boron

SOURCE: Atomnaya energiya, v. 17, no. 1, 1964, 59-60

TOPIC TAGS: alpha particle, boron, elastic scattering, charge exchange, alpha cross section, differential cross section, angular distribution

ABSTRACT: Results are presented of measurements of the cross sections for the scattering of alpha particles by natural and enriched (86% B^{10}) boron. The alpha particles in the primary beam had energies 13.6 and 14.7 MeV. The primary-beam energy for natural boron was 13.55 and 14.66 MeV, respectively. The angular distributions were measured in a multiple-plate scattering chamber. The particle beam from the cyclotron was focused on the target by two quadrupole

Card 1/5

ACCESSION NR: AP4042263

magnetic lenses. The charge transferred by the primary alpha particle beam was gathered with a Faraday cup and measured with an electronic integrator accurate to 2%. The energy of the primary beam was determined from the ranges in emulsion, accurate to 2.5%. The accuracy of the differential-cross section measurements was 15%. The angular distributions of the alpha particles elastically scattered by B^{10} are found to agree with the results predicted by the optical model. From a comparison of the results of angular distributions for boron with those obtained for other nuclei (R. Eisberg, C. Porter, Rev. Mod. Phys. v. 33, 190, 1961) it can be concluded that the angular distributions obtained here are similar in form to those obtained for other nuclei. Orig. art. has: 3 figures.

ASSOCIATION: None

SUBMITTED: 09Aug63

ENCL: 03

SUB CODE: NP

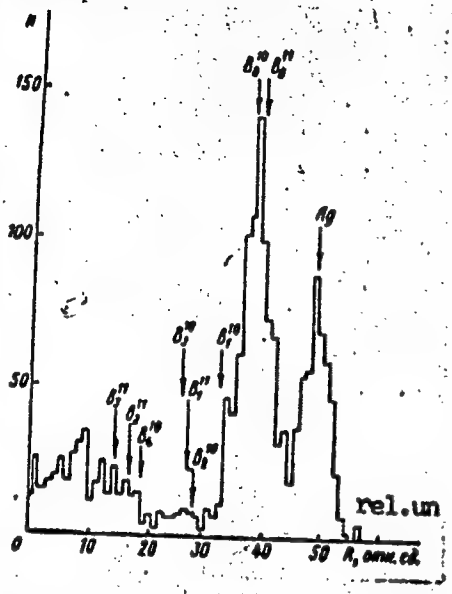
NR REF SOV: 001

OTHER: 004

Card 2/5

ACCESSION NR: AP4042263

ENCLOSURE: 01

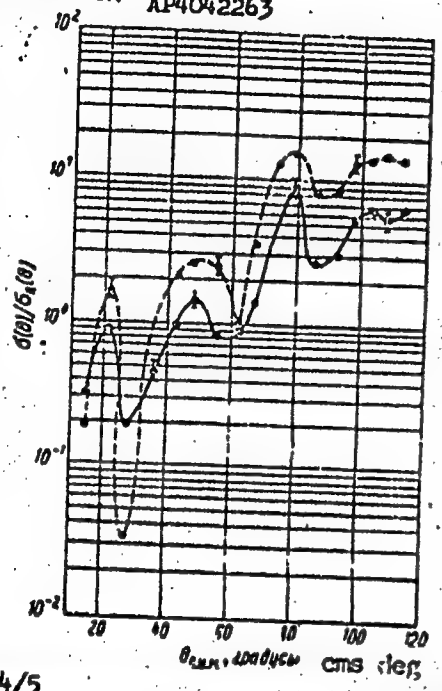


Histogram of ranges of alpha particles scattered by natural boron

Card 3/5

ACCESSION NR: AP4042263

ENCLOSURE: 02



Angular distribution of alpha particles elastically scattered by natural boron with energy 13.55MeV (solid) and 14.66MeV (dashed)

Card 4/5

ACCESSION NR: AP4042263

ENCLOSURE: 03

Ann

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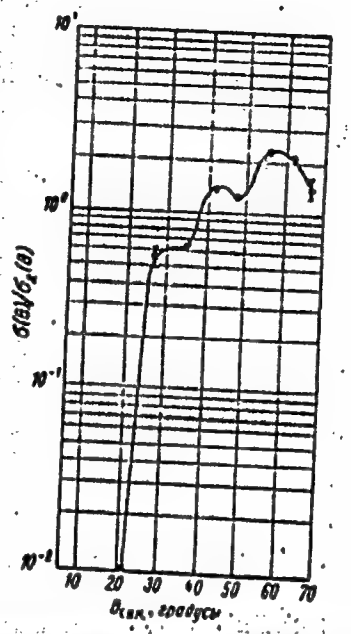
Angular distribution of alpha particles elastically scattered by B-10



Card 5/5

ACCESSION NR: AP5000857 S/0166/64/000/005/0037/0040

AUTHOR: Starchubtsev, S. V.; Khrushchev, B. I.; Belyakin, [illegible]; V. E.

TITLE: Measurement of neutron spectra by a monocrystalline spectrometer in the thermal column

SOURCE: AN UzSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 5, 1964, 37-40

TOPIC TAGS: neutron diffraction, crystal spectrometer, monocrystalline lead, thermal

ABSTRACT: A method suitable for investigating the spectra of thermal neutrons with wavelengths from 1.0 to 5.3A is described. In this method, reflection from the (111) plane of monocrystalline lead is utilized to analyze the neutron beam. The scattering by the crystal is shown schematically in Fig. 1 of the Enclosure. The angle of cut relative to the (111) plane is denoted by θ; y is the width of the impingent beam; x that of the reflected beam. The experimental device is shown schematically in Fig. 2 of the Enclosure. The graphite plugs are each 50 cm in length. A fraction of the order of [illegible] of the basic beam is scattered by the device. Fig. 3 of the Enclosure shows the spectrum obtained by the device. The distribution is approximately maxwellian. Orig. art. has: 3 figures and 4 equations.

Card 1/6

L 12355-65

ACCESSION NR: AP5000857

ASSOCIATION: Institut yadernoy fiziki AN [illegible] SSR

[illegible] 26Aug63 ENCL: 00

OTHER: 002

Card 2/5

KHRUSHCHEV, B.I.

Dipole-dipole interaction in slow neutron scattering by protons. Izv. AN Uz. SSR. Ser. fiz.-mat. nauk 9 no.4:73-78 '65. (MIRA 18:9)

1. Institut yadernoy fiziki AN UzSSR.

KHRUSHCHEV, G.G., kandidat tekhnicheskikh nauk.

Methods for an experimental study of the distribution of friction forces on drawing machines. Tekst.prom. 16 no.4:32-33 Ap '56. (MLRA 9:7)
(Spinning machinery)

KHRUSHCHEV, G.G., kandidat tekhnicheskikh nauk.

New machines for the fine comber system of wool spinning.
Tekst. prom. 16 no.8:16-20 Ag '56. (MLRA 9:10)

(Combing machines) (Woolen and worsted spinning)

KHRUSHCHEV, Grigoriy Grigor'yevich; GOL'DENBERG, M.K., retsenzent; LIOZNOV, A.G., redaktor; MEDVEDEVA, L.A., tekhnicheskiy redaktor

[Ritter Company machine for combing wool] Mashina firmy Riter dlia grebennogo prisdeniia sherati. Moskva, Gos.nauchno-tekhn. izd-vo M-va legkoi promyshl. SSSR, 1957. 74 p. (MIRA 10:9)
(Combing machines)

LIPENKOV, Yakov Yakovlevich; MUKHANOV, P.Ya., retsenzent; KHRUSHCHEV, G.G., retsenzent; GORDEYCHIK, G.M., red.; VINOGRADOVA, G.A., tekhn. red.

[General technology of wool] Obshchaia tekhnologiia shersti. Izd.3., perer. i dop. Moskva, Rostekhizdat, 1962. 331 p. (MIRA 15:7)
(Woolen and worsted manufacture)

KHRUSHCHEV, G.O., kand.tekhn.nauk; AFANAS'YEV, V.K., inzh.; YADROVA, G.I., inzh.

Combined wool spinner-twister. Tekst.prom. 22 no.2:30-32 F '62. (MIRA 15:3)

1. TSentral'nyy nauchno-issledovatel'skiy institut sherstyanoy promyshlennosti (TsNIISherstI).
(Spinning machinery)

OZEROV, Boris Viktorovich; MOROZOV, S.A., retsenzent; KHRUSHCHEV, G.G., retsenzent; VARSHAVSKAYA, L.S., red.; BATYREVA, G.G., tekhn. red.

[Top and roving processing machines for worsted spinning of fine wool] Lentochnye i rovnichnye mashiny grebennogo priadeniia tonkoi shersti. Moskva, Rostekhizdat, 1962. 192 p.

(Woolen and worsted spinning) (MIRA 16:5)

GAKEL', Rodion Aleksandrovich; KHRUSHCHEV, G.G., retsenzent; ORLOVA, L.A., red.; GOLUBKOV, V.A., tekhn. red.

[Wool spinningmachinery with continuous action; condenser spinning]Sherstopriadil'nye mashiny nepreryvnogo deistviia; apparatnoe priadenie. Izd.2., perer. i dop. Moskva, Rostekhizdat, 1962. 251 p. (MIRA 15:12)
(Spinning machinery) (Woolen and worsted spinning)

KHRUSHCHEV, G.G., kand. tekhn. nauk; Prinimali uchastiye: YADROVA, G.I., inzh.; STEPANOV, I.T., konstruktor; AFANAS'YEV, V.K., inzh.; DODONOVA, V.I., laborant; VORONOVA, R.G., laborant

Method of combined spinning, slubbing, and twisting in woolen manufacture. Nauch.-issl. trudy TSNIIShersti no.17:29-38 '62. (MIRA 17:12)

KHRUSHCHEV, G.I. (Kazan')

Plotting the projections of intersection lines of some second order surfaces. Trudy KAI 45:29-43 '59. (MIRA 14:1)
(Geometry, Projective)

KHRUSHCHEV, G. N.

231T47

USSR/Engineering - Heat, Steam Turbines

Jun 52

"Reconstruction of the Flow Section of a Steam Turbine," D. A. Yermakov, V. P. Khripunov, A. F. Dolgov, Engineers, GRES Mosenergo, I. D. Lyakhovitskiy, Cand Tech Sci, G. N. Khrushchev, Engr, Lab of Steam Turbines, VTI

"Iz v-s Teplotekh Inst" No 6, pp 24-27

Describes changes in design of turbine to increase its efficiency and reduce consumption of theoretical fuel to 480 g/kwh. Two-cylinder condensing Siemens-Shuckert 50,000-kw turbine was built in 1930-31. Regulation stage with 140 nozzles and 19 reaction stages were redesigned. Tests showed decrease in heat rate by 4.3%. Turbine capacity was increased to 52,000 kw at same max steam rate.

231T47

KHRUSHCHEV, G.N.; KUKIN, I.S.

Study of the efficiency of the hydraulic breaking of hard coals under laboratory conditions. Trudy Inst. gor. dela. UFAN SSSR no.3:9-18 '62. (MIRA 16:3)

(Hydraulic mining) (Coal—Testing)

KHRUSHCHEV, G.N.; KUKLIN, I.S.; SIDOROV, I.N.

Study of the hydraulic breaking of coal in a stope and the parameters of the mining system for a steep seam. Trudy Inst. gor. dela UFAN SSSR no.3:29-38 '62. (MIRA 16:3)
(Kizel Basin--Hydraulic mining)

FEDOROVA, G.G.; KUKLIN, [illegible]S.; KHRUSHCHEV, G.N.

Effect of some physicochemical factors on the breaking of coal in a laboratory experiment. Trudy Inst. gor. dela UFAN SSSR no.3:45-47 '62. (MIRA 16:3)

(Coal—Testing)

SIDOROV, I.N.; KUKLIN, I.S.; KHRUSHCHEV, G.N.; SHTUKATUROV, K.M.; ROZOV, B.V.; BUDKOV, V.Ye.; VANYUSHIN, N.M.; GICHKO, V.A.; SUMIN, A.A.

Hydraulic breaking of hards in the Kizel Basin coal mines. Ugol' 37 no.3:16-18 Mr '62. (MIRA 15:2)

1. Gornogeologicheskiy institut Ural'skogo filiala AN SSSR (for Sidorov, Kuklin, Khurshchev, Shtukaturov). 2. Kombinat Kizelugol' (for Rozov, Budkov, Vanyushin, Gichko, Sumin).
(Kizel Basin--Hydraulic mining)

KHRUSHCHEV, G.N.

Flowsheet of an experimental section and the methodology of industrial testing of the hydraulic mining method in Mine No. 76/75 of the Kizel Basin. Trudy Inst. gor. dela UFAN SSSR no.3:23-27 '62. (MIRA 16:3)
(Kizel Basin--Hydraulic mining)

KHRUSHCHEV, G.N.

Study of the hydraulic breaking of coal on the working face of a development working. Trudy Inst. gor. dela UFAN SSSR no.3:39-43 '62.
(MIRA 16:3)
(Kizel Basin—Hydraulic mining)

IVAKIN, V.V.; KHRUSHCHEV, G.N.

Practice of using pressureless hydraulic transportation in Mine No.76/75. Trudy Inst. gor. dela UFAN SSSR no.3:95-99 '62. (MIRA 16:3)
(Kizel Basin—Hydraulic conveying)

KHRUSHCHEV, Ivan, udarnik kommunisticheskogo truda, svinar'

My friends, the virgin-land farmers. Sov.profsoiuzy 17 no.10: 13-15 My '61. (MIRA 14:5)

1. Chlen rabochkoma sovkhoza "Izhevskiy."
(Virgin Territory--Socialist competition)
(State farms)

KHRUSHCHEV, L.I.

PHASE I BOOK EXPLOITATION SOV/5721

Vsesoyuznaya astrometricheskaya konferentsiya.

Trudy 14-y Astrometricheskoy konferentsii SSSR, Kiyev, 27-30 maya 1958 g. (Transactions of the 14th Astrometrical Conference of the USSR, Held in Kiyev 27-30 May 1958) Moscow, Izd-vo AN SSSR, 1960. 440 p. Errata slip inserted. 1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Glavnaya astronomicheskaya observatoriya (Pulkovo).

Resp. Ed.: M. S. Zverev, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: N. K. Zaychik; Tech. Ed.: R. A. Zamarayeva.

PURPOSE: The book is intended for astronomers and astrophysicists, particularly those interested in astrometrical research.

COVERAGE: This publication presents the Transactions of the 14th Astrometrical Conference of the USSR, held in Kiyev 27-30 May 1958. It includes 27 reports and 55 scientific papers presented at the plenary meeting of the Conference

Card 1/26

and at the special sectional meetings. An appendix contains the resolutions adopted by the Conference, the composition of the committees, the agenda, and the list of participants at the Conference. A brief summary in English is given at the end of each article. References follow individual articles. The Presidium of the Astrometrical Committee (Chairman M. S. Zverev), which supervised the preparation of this publication, expresses thanks to the members of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskiy, A. B. Onegina, and Kh. I. Potter.

TABLE OF CONTENTS:

GARKUNOV, D.N.; SLOBODYANNIKOV, S.S.; KHRUSHCHEV, M.M.

In memory of Leonid Vladimirovich Ilin and the bibliography of his works. Tren.i izn. mash. no.14:290-293 '60.
(MIRA 13:8)
(Ilin, Leonid Vladimirovich, 1910-1957)

GLAZOV, Vasiliy Mikhaylovich; VIGDOROVICH, Vilenin Naumovich; KHRUSHCHEV, M.M., prof., doktor tekhn. nauk, retsenzent; NOVIKOV, I.I., dots., kand. tekhn. nauk, retsenzent; ARKHANGEL'SKAYA, M.S., red. izd-va; MIKHAYLOVA, V.V., tekhn. red.

[Microhardness of metals] Mikrotverdost' metallov. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1962. 224 p. (MIRA 15:2)
(Metals--Testing) (Hardness)

KHRUSHCHEV, M.S.

LAPIN, O.F.; KRUSHCHEV, M.S.; GORODINSKAYA, Ye.A.; KOCHERGINSKIY, M.M. TELYANKEVICH, V.S.; SHARFMAN, S.D.; OSTANOV, Kh.

Improving the smelting of boron carbide. Prom.energ. 12 no.8:17-18 Ag '57. (MIRA 10:10)

(Boron carbides) (Smelting)

S/148/60/000/010/007/018
A161/A030

AUTHORS: Krylov, V.N.; Khrushchev, M.S.

TITLE: The Kinetics of 75-% Ferrosilicon Formation from Quartzites of Different Deposits

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, 1960, No. 10, pp. 84 - 95

TEXT: The purpose of this investigation was to determine the role of the quartzites microstructure in the process of the formation of 75-per cent ferrosilicon. Quartzites from three deposits were studied - from the Karaul'naua mount, Bakal'skoye, and Zolotaya Sopka, designated with КП, КБ and КК (КР, КВ and КК). The samples were studied by the Chelyabinskiy ferrosplavnyy zavod (Chelyabinsk Ferroalloy Plant); the composition and structure is different. An installation of Institut khimii silikatov AN SSSR (Institute of Silicates Chemistry of the Academy of Sciences USSR) with micro-scales was used for thermographic analysis. The ferrosilicon melting process was studied in 1700 - 1900°C in a tubular electric furnace with stepped temperature control; the quartzites had a grain size of between 0.075 and 0.60 - 0.80 mm; the duration of the experiments was 5 - 40 min; the

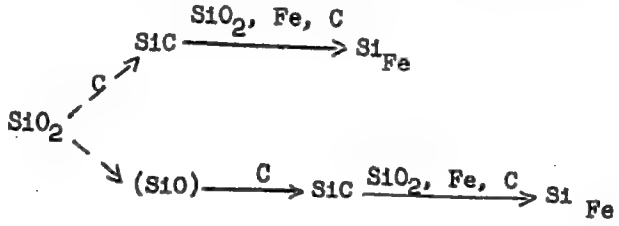
Card 1/5

The Kinetics of 75-% Ferrosilicon Formation from Quartzites of Different Deposits

samples were melted in 6 graphite crucibles placed into a graphite tray. The charge was composed by the equation $SiO_2 + 2C = Si + 2CO$. The curves (Fig. 3) obtained proved that the speed of ferrosilicon formation cannot be described by one general equation. Analytically, the curves 1,2 and 3 (Fig. 3) were described with sufficient accuracy for ferrosilicon formation at up to 1700°C by the formula $[Si] = m\sqrt{t}$ (1) where [Si] is the Si content in melt (in %); m - the coefficient depending on the nature of the quartzites, the diameter of the particles, and the temperature; t - the isothermic holding time in furnace, in min. This equation has no maximum, and the process has practically to be endless to obtain 75% Si. The process does not end at 1700°, and it was not possible to obtain more than 20 - 25° Si. At 1800° and higher the process is different (Fig. 4) and can be expressed by the equation $[Si] = at^2 + bt + \frac{c}{t} + d$ (2) where a,b,c and d are coefficients depending on the quartzites structure, particles' diameter, and temperature. This equation has a maximum showing that the process ends. The real Si content in the melt was 10-14% below that calculated, which may be explained by volatilizing of Si, SiO_2 or SiO, as was revealed by Mikulinskiy and Maron (Ref. 8). It was concluded that the rate of ferrosilicon formation depends to a considerable degree on the particles' diameter and the structure of the quartzites, particular-

The Kinetics of 75-% Ferrosilicon Formation from Quartzites of Different Deposits

ly at the beginning of the process before liquefying. The maximum Si content in the melt was obtained at 1800°C, and with PK quartzite particles' diameter of 0.12 mm; the maximum ferrosilicon formation rate from the same quartzite at the same temperature was observed at 0.25 mm particles' diameter. The 1850 - 1900°C range may be considered the optimum. The laboratory data were confirmed in the practical process at the Chelyabinsk Ferroalloy Plant with KK quartzites (the ferrosilicon formation process was faster than the KK grade in the Laboratory), but the KK grade proved unsuitable for melting in stationary electric furnaces with an open top. The best furnace design is expected to be with a rotating bath and tight-sealed top. It was concluded that in principle the formation reaction of 75-per cent ferrosilicon is



Card 3/5

S/148/60/000/010/007/018
A161/A030

The Kinetics of 75-% Ferrosilicon Formation from Quartzites of Different Deposits

and the interaction of silicon carbide with SiO_2 and iron limits the formation. There are 7 figures and 13 references: 11 Soviet, 1 French and 1 English.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad Technological Institute imeni Lensovet)

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Card 4/5

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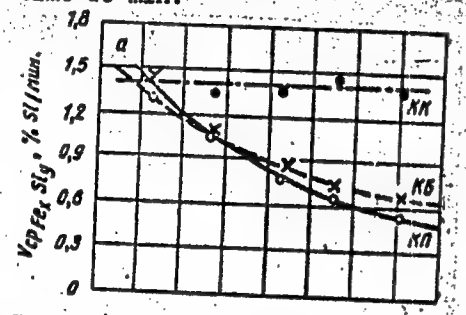
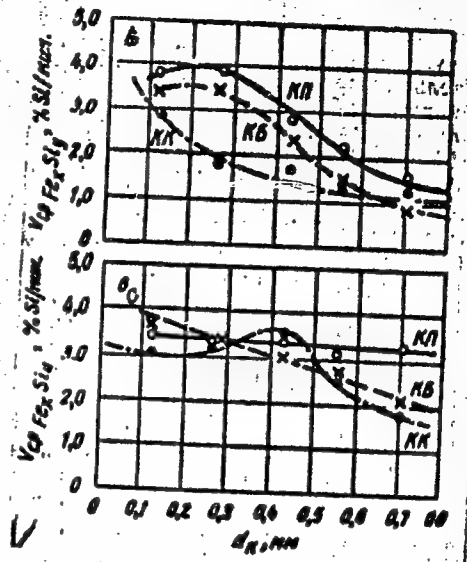
Figure 4:

Dependence of the ferrosilicon formation rate on the quartzite particles diameter ($d_к$) at different temperatures: a - 1700°C; b - 1800°; v) - 1900°. Holding time 10 min.





Card 5/5

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1. Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii. Predstavleno akademikom S.I.Vol'fkovichem.

KHRUSHCHEV, N.

To Major IUrii Alekseevich Gargarin, Soviet cosmonaut first in the world to finish a cosmic flight. Zdrav. Bel. 7 no. 4:8 Ap '61. (MIRA 14:4)

(SPACE FLIGHT)